



03-04-03

2834

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Huang et al.

Serial No: 09/685,304  
Filed: October 10, 2000

Group No.: 2834  
Examiner: K. Addison

For: MAGNETIZING STRUCTURE OF MOTOR

**Commissioner for Patents  
Washington, DC 20231**

**EXPRESS MAIL CERTIFICATE**

“Express Mail” label number: EU990147559US

Date of Deposit: March 3, 2003

I hereby certify that the following attached paper or fee

AMENDMENT TRANSMITTAL

AMENDMENT AND RESPONSE TO OFFICE ACTION

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington, D.C. 20231.

Beth H. Retort  
(Typed or printed name of person mailing paper or fee)  
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NOTE: The label number need not be placed in each page. It should, however, be placed on the first page of each separate document, such as, a new application, amendment, assignment, and transmittal letter for a fee, along with the certificate of mailing by "Express Mail." Although the label number may be on checks, such a practice is not required. In order not to deface formal drawings it is suggested that the label number be placed on the back of each formal drawing or the drawings be accompanied by a set of informal drawings on which the label number is placed.

**(Express Mail Certificate [8-3])**

## FEE DEFICIENCY

NOTE: If there is a fee deficiency and there is no authorization to charge an account, additional fees are necessary to cover the additional time consumed in making up the original deficiency. If the maximum, six-month period has expired before the deficiency is noted and corrected, the application is held abandoned. In those instances where authorization to charge is included, processing delays are encountered in returning the papers to the PTO Finance Branch in order to apply these charges prior to action on the cases. Authorization to charge the deposit account for any fee deficiency should be checked. See the Notice of April 7, 1986, (1065 O.G. 31-33).

6.  If any additional extension and/or fee is required, charge Account No.
7. 11-1110

### AND/OR

If any additional fee for claims is required, charge Account No.

11-1110



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#### SIGNATURE OF ATTORNEY

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## FEE FOR CLAIMS

4. The fee for claims (37 CFR 1.16(b)-(d) has been calculated as shown below:

(Col. 1)	(Col. 2)	(Col. 3)	SMALL ENTITY		OTHER THAN A SMALL ENTITY	
CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NO PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDIT. FEE OR	RATE	ADDIT. FEE
TOTAL 5•	MINUS 20••	=0	x9=	\$0	x18=	\$0.
INDEP. 4•	MINUS 4•••	=0	x 42=	\$0	X84=	\$0.
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM			+130=	\$	+280=	\$
				TOTAL ADDIT. FEE \$0	OR	TOTAL ADDIT. FEE \$0

- If the entry in Col. 1 is less than entry in Col. 2, write ")" in Col. 3.
- If the "Highest No. Previously Paid for" IN THIS SPACE is less than 20, enter "20."
- If the "Highest No. Previously Paid for" IN THIS SPACE is less than 3, enter "3." The "Highest No. Previously Paid for" (Total or indep.) is the highest number found in the appropriate box in Col. 1 of a prior amendment or the number of claims originally filed.

**WARNING** "After final rejection or action (§ 1.113) amendments may be made cancelling claims or complying with any requirement of form which has been made." 37 CFR § 1.116(a) (emphasis added).

Complete (c) or (d), as applicable)

(c)  No additional fee for claims is required.

**OR**

(d)  Total additional fee for claims required \$\_\_\_\_\_

### FEE PAYMENT

5.  Attached is a check in the sum of \$\_\_\_\_\_

Charge Account No. \_\_\_\_\_ the sum of \$\_\_\_\_\_

A duplicate of this transmittal is attached.



Attorney's Docket No. 00766

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Huang et al.

Serial No: 09/685,304  
Filed: October 10, 2000

Group No.: 2834  
Examiner: K. Addison

For: MAGNETIZING STRUCTURE OF MOTOR

**Commissioner for Patents**  
Washington, DC 20231

**AMENDMENT TRANSMITTAL**

1. Transmitted herewith is an amendment for this application.

**STATUS**

2. Applicant is

a small entity. A verified statement:  
 is attached.  
 was already filed.  
 other than a small entity.

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**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)**

I hereby certify that this correspondence is, on the date shown below, being:

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Signature

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(type or print name of person certifying)



PATENT  
00766

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner: K. Addison :  
Art Unit: 2834 :  
In re application of: : MAGNETIZING STRUCTURE OF  
Wen-Shi Huang, et al. : MOTOR  
Serial No.: 09/685,304 :  
Filed: October 10, 2000 :

**AMENDMENT AND RESPONSE TO OFFICE ACTION**

Pittsburgh, Pennsylvania 15222-2312  
March 3, 2003

Commissioner of Patents  
Washington, DC 20231

Sir:

In response to the Office Action dated December 4, 2002 issued in the above-referenced patent application (“subject application”), please amend the subject application as follows:

**In the Claims**

Please amend claims 1, 5, 9 and 11 as follows:

1. (Four Times Amended) A structure for magnetizing a rotor magnet of a motor, comprising:

a rotor, the rotor being a unitary magnet cylinder bounded by an inner surface and outer surface, wherein at least one of said surfaces is a unitary and

continuous curve surface comprising a plurality of continuous curve surfaces, each curve surface having convex and concave curve portions; and  
a stator having a plurality of silicon steel sheets wound by a plurality of winding coils.

5. (Four Times Amended) A structure for magnetizing a stator magnet of a motor, comprising:

a stator, the stator being a unitary magnet cylinder bounded by an inner surface and outer surface, wherein at least one of said surfaces is a unitary and continuous curve surface comprising a plurality of continuous, each curve surface having convex and concave curve portions curve surfaces; and

a rotor having a plurality of silicon steel sheets wound by a plurality of winding coils.

9. (Four Times Amended) A structure for magnetizing a rotor magnet, comprising:

a rotor, the rotor being a unitary magnet cylinder with an irregular lumpy edge comprising a plurality of concave surfaces and a plurality of convex surfaces; and

a stator having a plurality of silicon steel sheets wound by a plurality of winding coils and mounted inside said magnet cylinder.

11. (Four Times Amended) A structure for magnetizing a stator magnet, comprising:

a stator, the stator being a unitary magnet cylinder with an irregular lumpy edge comprising a plurality of concave surfaces and plurality of convex surfaces; and

a rotor having a plurality of silicon steel sheets wound by a plurality of winding coils and mounted inside said magnet cylinder.

### **REMARKS**

#### **Status of the Application**

Claims 1, 4, 5, 8, 9, and 11 are pending in the subject application and stand rejected. Claims 1, 5, 9 and 11 are amended herein.

#### **Objections to the Drawings**

The proposed correction to FIG. 5 filed on 11/18/02 was disapproved because, according to the Office Action, it purportedly introduces "new matter". As discussed in the telephone interview of January 14, 2003 with the Examiner and the Primary Examiner, the only correction to FIG. 5 was the addition of a reference number 5 to point to the lumpy edge, which is discussed on page 5, lines 13-19. Therefore, the correction to FIG. 5 does not introduce new matter. Entry of the correction to FIG. 5 filed on 11/18/02 is respectfully requested.

#### **Rejections under 35 U.S.C. §112**

Claims 1, 5, 9 and 11 were rejected under 35 U.S.C. §112, first paragraph as containing subject matter not described in the specification and drawings. Regarding claims 1 and 5, the Office Action provides that the drawings and the specification fail to disclose a plurality of continuous and intersecting curve surfaces having different arc centers at the time the application was filed. Applicant traverses this rejection and directs the Examiner to page 2, lines 24-25, and page 3, lines 10-11 of the specification, as originally filed, and also to claims 3 and 7, as originally filed, and to FIGS. 2-4 as originally filed, for the required disclosures.

Regarding claims 9 and 11, the Office Action provides that the drawings and the specification fail to disclose a lumpy edge comprising a plurality of convex and concave surfaces